

AE Techron

DV 1.5 AMPLIFIER

APPLICATION

The DV 1.5 is a completely digital amplifier designed to efficiently drive inductive loads in either pulsed or continuous signal applications. The DV 1.5 has two (2) separate channels that can be operated independently, or combined in bridge-mono mode to provide greater maximum voltage output. The DV 1.5 features a Power Factor Corrected (PFC) switching power supply and universal voltage operation.



The PFC switching power supply automatically corrects the electrical phase angle, optimizing the amount of current drawn from the wall outlet. This results in dramatically reduced operating costs. The PFC also provides the end user the flexibility to use the DV 1.5 with a variety of different loads.

The universal voltage operation feature allows the DV 1.5 to operate almost anywhere in the world from 100VAC to 240VAC, 50Hz or 60Hz, without costly transformers and voltage regulators..

FEATURES

- ▶ Output of 15.0 amperes RMS, 100 volts RMS in bridge mono
- ▶ Front panel indicators for rapid assessment of amplifier status
- ▶ PJ-11 jack for remote fault monitoring (requires external circuitry).
- ▶ Digital switching power supply with a .98 Power factor.
- ▶ Designed to survive input overloads, improper output connection (including improper loads) and continuous operation under demanding conditions
- ▶ Shipped ready to operate using single-phase, 100-240-volt AC mains (50-60Hz)
- ▶ Installs easily into a standard 19-inch rack, or stands alone for bench top operations.
- ▶ Backed with AE TECHRON'S application engineering, service facilities, technical support and one-year warranty

INDICATORS AND CONTROLS

- ▶ Front panel LED'S indicate signal presence, signal clip and signal fault.
- ▶ A rocker type "On/Off" power switch located on the front panel.
- ▶ Gain controls located on the back panel.
- ▶ Rear panel dual channel or bridge-mono switch.



Call us or visit our website! When you want the very best, give us your requirements, and **AE Techron Inc.** will do the rest! We are happy to help.

AE Techron Inc.

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DV 1.5 SPECIFICATIONS

PERFORMANCE (One hour continuous ratings)

Frequency response: 20 Hz to greater than 20 kHz

Phase Response: +/- 15 degrees (20 to 20 kHz at 1 watt)

Signal to noise Ratio: 102 dB gain below rated output (20 to 20 kHz)

THD + Noise: Less than 0.5% at 1 kHz (20 to 20 kHz)

Input Impedance: 20.0 kOhm differential

Output impedance: 10 milliohms at 1 kHz, 1.2 ohms at 20 kHz

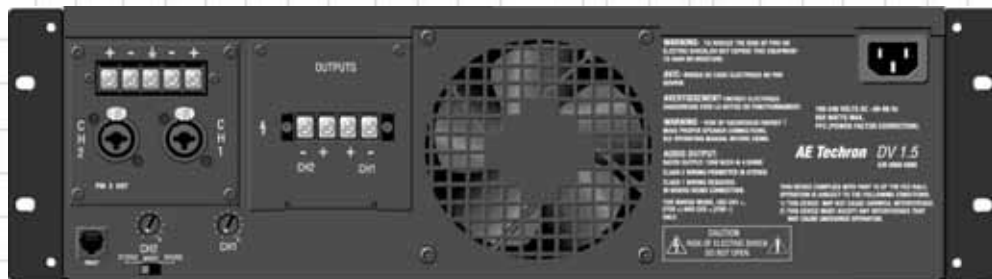
OUTPUT POWER DV 1.5

Single Channel	40msec			1 Hour Continuous		
	Ohms	Watts	Volts	Amps	Watts	Volts
2	1800	60	30	882	42	21
4	1260	71	17.8	915	61	15
8	630	71	8.9	612	70	8.8

Inductive Load	Single Channel 0.5 mH +0.1 ohm R load		Single Channel 1.0 mH +0.1 ohm R Load	
	Duration	Volts	Amps	Volts
5 seconds	72	22	75	10.6
1 hour	57	16	75	10.6

Bridged Mono	40msec			1 Hour Continuous		
	Ohms	Watts	Volts	Amps	Watts	Volts
2	1625	57	28.5	220	21	10.5
4	2601	102	25.5	812	57	14.3
8	2485	141	17.6	946	87	10.9

Inductive Load	Bridge Mono 0.5 mH + 0.1 ohm R load			Bridge Mono 1.0 mH +0.1 ohm R load		
	Duration	Volts	Amps	Duration	Volts	Amps
5 sec.	88	26	5 sec	145	22	
2 min.	55	26	4 min.	120	18.2	
1 hour	50	15	5 min.	101	15	



PHYSICAL CHARACTERISTICS

Chassis: The Amplifier is designed for stand alone, or rack mounted, operation. The Chassis is black steel with a silver and blue front panel. The unit occupies one EIA 19-inch-wide unit.

Weight: 33.3 lbs. (15.1 kg)

AC Power: Single phase, 100 to 240 volt, 50-60 Hz, 15 amp service.

Cooling: Forced air, 140 CFM

SUPPORT

When you purchase an **AE Techron** amplifier, a full complement of technical and factory support personnel join your team. **AE Techron Inc.** provides:

- ▶ Applications engineering for your technical questions and customized product needs.
- ▶ A one year limited warranty to protect your equipment investment.
- ▶ A fully equipped service center to keep your amplifier operating at original performance requirements.

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